INTERNATIONAL SEARCH REPORT

International Application No PCT/FR2004/003223

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F02B29/04 F02M25/O7 F02B29/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 F02B F02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ	FR 2 840 363 A (VALEO THERMIQUE MOTEUR) 5 December 2003 (2003-12-05) abstract; claims; figures	1,3,11, 17,19
A	page 4, line 16 - page 6, line 8	2,4-10, 12-16,18
Y	EP 1 164 280 A (PIERBURG AG) 19 December 2001 (2001-12-19) abstract; figures	1,3,11, 17,19
A	column 1, paragraph 7 - column 2, paragraph 9	2,4-10, 12-16,18
Ρ,Χ	WO 2004/044402 A (PEUGEOT CITROEN AUTOMOBILES SA; TOMASELLI, LUDOVIC; MONIE, NICOLAS) 27 May 2004 (2004-05-27) abstract; figures	1-6,9,11
P,A	page 6, line 5 - page 9, line 13	7,8,10, 12-19

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, usa, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	'T' later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
Date of the actual completion of the International search	Date of mailing of the international search report
11 May 2005	20/05/2005
Name and mailing address of the ISA	Authorized officer
European Palent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Döring, M

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Internation No
PCT/FR2004/003223

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	continuation) DOCUMENTS CONSIDERED TO BE RELEVANT agory Challon of document, with Indication, where appropriate, of the relevant passages Relevant to claim No.					
ategory °	Chain of document, with indication, where appropriate, or the relevant passages	Helevant to ctaim No.				
	DE 198 53 455 A (AVL LIST GMBH) 2 June 1999 (1999-06-02) abstract; figures column 2, line 21 - column 3, line 42	1-19				
Ą	FR 2 835 884 A (VALEO THERMIQUE MOTEUR) 15 August 2003 (2003-08-15) claims; figures page 7, line 5 - page 8, line 17 page 9, line 30 - page 10, line 26	1-19				
A	ES 2 174 739 A (VALEO TERMICO SA) 1 November 2002 (2002-11-01) abstract; figures	1-19				
A	EP 0 987 427 A (MODINE MANUFACTURING CO) 22 March 2000 (2000-03-22) abstract; figures	1-19				
A	US 5 632 256 A (EIBL MARKUS) 27 May 1997 (1997-05-27) abstract; figures	1-19				

INTERNATIONAL SEARCH REPORT

information on patent family members

Internal Application No PCT/FR2004/003223

Patent document clted in search report		Publication date		Patent family member(s)		Publication date
FR 2840363	A	05-12-2003	FR AU WO	2840363 2003264668 03102396	A1	05-12-2003 19-12-2003 11-12-2003
EP 1164280	A	19-12-2001	DE EP	10028400 1164280		20-12-2001 19-12-2001
WO 2004044402	A	27-05-2004	FR WO	2847004 2004044402		14-05-2004 27-05-2004
DE 19853455	A	02-06-1999	AT DE	2490 19853455		25-11-1998 02-06-1999
FR 2835884	Α .	15-08-2003	FR AU EP WO US	2835884 2003214355 1474601 03069149 2005034712	A1 A1 A1	15-08-2003 04-09-2003 10-11-2004 21-08-2003 17-02-2005
ES 2174739	Α	01-11-2002	ES WO EP ES	2174739 02052142 1343963 2186535	A1 A1	01-11-2002 04-07-2002 17-09-2003 01-05-2003
EP 0987427	Α	22-03-2000	DE DE EP	19841927 59908232 0987427	D1	16-03-2000 12-02-2004 22-03-2000
US 5632256	Α	27-05-1997	DE EP	19507961 0732487		12-09-1996 18-09-1996